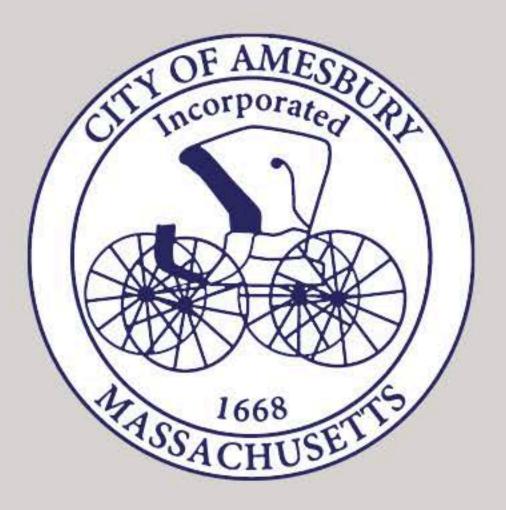




# Amesbury Elementary School

# School Building Committee

October 25, 2018





# Agenda

- MSBA update
- Site selection history
- AES site update
- CES site update
- FAQs
- Survey Results
- Site evaluation and selection
- MSBA Process & Timeline

## MSBA Update

- MSBA original K-5 total enrollment: 850
- MSBA new K-5 total enrollment: 875
  - District-wide K-2 enrollment: 425 students
  - District-wide 3-5 enrollment: 450 students

# School Capacity | AES

	Integrated										
Year	PK	K	1	2	3	4	5	6	7	8	Total
2026-27 MSBA Enrollment		141	142	142	150	150	150				875
2018-19 actual (9/20/18)		120	148	141	169	179	165				922
AES PK-2											
Total # students AES		141	142	142							425
Average # students/classroom		18	20	20							
# classrooms required	3.00	7.83	7.10	7.10							
Round # Classrooms	3	8	7	7							25
Total Capacity		144	140	140							424
Current enrollment		120	148	141							409
Student Difference											15
Capacity is 15 students above above current enrollment											
Total Control A PO		Suppression of the suppression of the suppression of the supersion of the									105
Total # students AES		141	142	142							425
High # students/classroom		20	22	22							
# classrooms required	3.00	7.05	6.45	6.45							
Round # Classrooms	3	8	7	7							25
Total Capacity	ľ	160	154	154							468
Current enrollment		120	148	141							409
Student Difference											59
Capacity is 59 students above current enrollment											

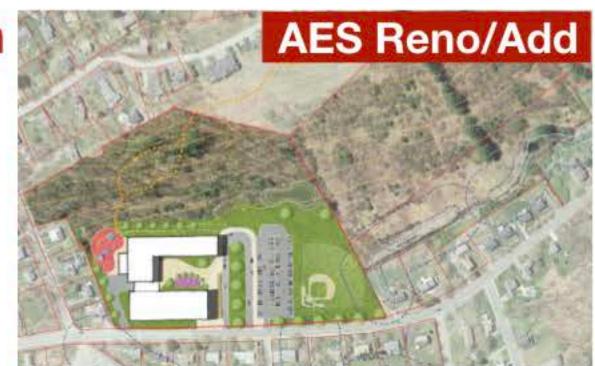
# School Capacity | CES

	Integrated										
Year	PK	K	1	2	3	4	5	6	7	8	Total
2026-27 MSBA Enrollment		141	142	142	150	150	150				875
2018-19 actual (9/20/18)		120	148	141	169	179	165				922
CES 3-5											
Total # students CES					150	150	150				450
Average # students/classroom					22	22	22				
# existing classrooms					6.82	6.82	6.82				20
Round # Classrooms					7	7	7				21
Total Capacity					154	154	154				462
Current enrollment		5.00	9		169	179	165		r		513
Keep other program space as Gen	Ed.				1	1	1				į į
Total Classrooms					8	8	8				24
Total Capacity	j				176	176	176				528
Current enrollment					169	179	165				513
Student Difference	, i										15
Capacity is 15 students above current enrollment											

Total # students CES	150	150	150	450
High # students/classroom	24	24	24	j
# existing classrooms	6.25	6.25	6.25	19
Round # Classrooms	7	7	7	21
Keep other program space as SPED	0	0	0	
Total Classrooms	7	7	7	21
Total Capacity	168	168	168	504
Current enrollment	169	179	165	513
Student Difference				-9

# Project History | Site

March 2018









May 2018







June 2018









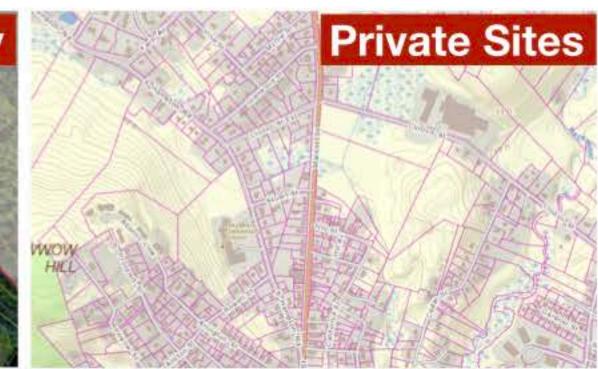
# Project History | Site

June 2018









July 2018







October 2018







## AES Site | Concept 1 — Renovation/Addition

## ~465 students 100,000 SF



#### Pros

- Same neighborhood
- Possibly retain playfield

## Cons

- 40 month construction
- Construction on occupied site
- Minimal on-site parking during construction
- Minimal construction lay-down area
- Limited parking when complete
- Significant retaining walls for play areas
- Storm water management



# AES | Concept 1 — First Floor Plan



# AES | Concept 1 — Second Floor Plan



# AES | Concept 1 — Third Floor Plan



# AES Site | Concept 1 — Renovation/Addition



# AES Site | Concept 1 — Existing Street View



# AES Site | Concept 1 — New Street View



## AES Site | Concept 2—New Construction



~465 students 100,000 SF

## Pros

- Same neighborhood
- All new building
- Possibly retain playfield

## Cons

- 40 month construction
- Construction on occupied site
- Minimal on-site parking during construction
- Minimal construction lay-down area
- Limited parking when complete
- Significant retaining walls for play areas
- Storm water management



# AES | Concept 2—First Floor Plan



## AES | Concept 2—Second Floor Plan



# AES | Concept 2—Third Floor Plan



# AES Site | Concept 2—New Construction



# AES Site | Concept 2—Existing Street View



# AES Site | Concept 2—New Street View



## AES Site | Concept 1 & 2—Traffic Plan



## AES Site | Concept 1 & 2—Additional Parking Option



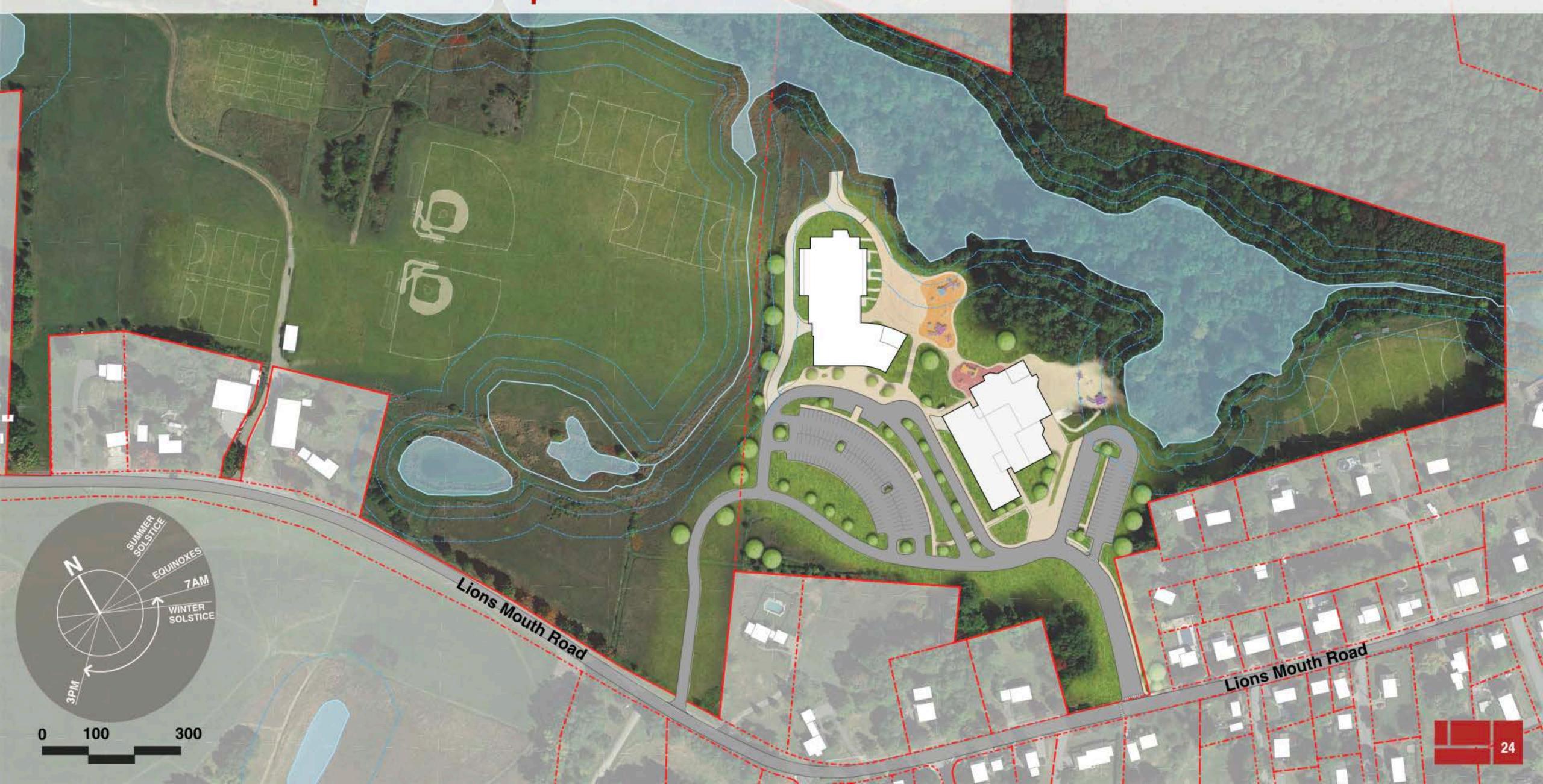
## Pros

- Additional parking for parents and staff
- Near school site

## Cons

- Additional project cost lease or purchase land
- Requires crossing the street

# CES Site | Concept 3—New Construction



## CES Site | Concept 3—New Construction

| 465 students (+ PK) | ~100,000 SF



- New building
- Campus creation
- Consolidated busing
- Improved on-site traffic
- Amesbury school site available for other use

## Cons

- Construction on occupied site
- Wetlands
- Neighborhood traffic congestion
- Replication of city fields
- Reduced green space



# CES | Concept 3—Ground Floor



# CES | Concept 3—First Floor



# CES | Concept 3—Second Floor



# CES | Concept 3—New Building

# CES Site | Concept 3—Preferred Traffic Plan A



#### Pros

- Approved by APD & AFD
- Separate queues for CES and AES
- Consolidated busing
- One way traffic during drop-off and pick-up
- Additional driveway reduces vehicular conflicts

## Cons

- Requires second exit driveway
- Additional neighborhood traffic @ drop-off & pick-up



# CES Site | Concept 3—Traffic Plan A Impacts

- Additional cross town traffic ~ 200 vehicles during drop-off & pick-up (critical intersections under review)
- Lions Mouth Road increase ~ 200 vehicles during drop-off & pick-up
- Lions Mouth Road increase 100 vehicles during teacher arrival & departure
- Lions Mouth Road is able to accommodate increased traffic
- Second driveway improves traffic flow and efficient egress
- Increased on-site queuing reduces impact to Lions Mouth Road
  - Additional crossing guards will be required

# Woodsom Site | Existing



# Woodsom Site | New Field Layout - Concept A



- Improves existing fields
- Connects parking for weekend recreation

## Cons

Revises the landscape of Woodsom Farm

# Woodsom Site | New Field Layout - Concept B



#### Pros

- Improves existing fields
- Connects parking for weekend recreation

#### Cons

Revises the landscape of Woodsom Farm

## Project Costs

OPTION 5 All PK-2	# of Students	Program Area <sup>(1)</sup>	Gross Square Footage	Estimated Construction Cost	Site Premiums	Project Cost	City Share	Woodsom Fields	Construction Duration
AES Site Reno/Add	425 Students	67,000 NFA	100,000 GSF	\$44,480,000 D-B-B	\$ 3,012,888	\$59,366,110	\$36,824,821	\$ -	40 months
	Plus PK students	67,000 NFA	100,000 GSF	\$48,300,000 CM	\$ 3,012,888	\$64,141,110	\$39,689,821	\$ -	40 months
AES Site Phased New	425 Students	67,000 NFA	100,000 GSF	\$47,000,000 D-B-B	\$ 3,264,000	\$62,830,000	\$39,003,600	\$ -	40 months
	Plus PK students			\$51,000,000 CM	\$ 3,264,000	\$67,830,000	\$42,003,600	\$ -	40 months
CES Site New	425 Students	67,000 NFA	100,000 GSF	\$47,000,000 D-B-B	\$ 320,000	\$59,150,000	\$35,618,000	\$ 2,030,000	24 months
	Plus PK students			\$51,000,000 CM	\$ 320,000	\$64,150,000	\$38,618,000	\$ 2,030,000	24 months

<sup>(1)</sup> NFA = Net Floor Area

#### **General Cost Assumptions**

- 1. Program Area based upon MSBA Space Summary
- 2. Gross Square Footage based upon NFA x 1.5
- 3. Construction Starts Sept. 2020

- 4. New D-B-B @ \$435/SF + 8% escalation = \$470/SF Reno D-B-B @ \$280/SF + 8% escalation = \$302/SF
- 5. New CM ECC @ \$472/SF + 8% escalation = \$510/SF Reno CM ECC @ \$306/SF + 8% escalation = \$330/SF

- 6. Project Cost = 25% of ECC
- City Share @ 40% reimbursement from MSBA or 60% share of project excluding fields

#### AES Reno/Add Site Specific Premiums escalated to 2020:

- \$ 378,000 Abatement of existing building @ \$7/SF \$ 312,000 Demolition of existing building @ \$8/SF
- \$ 50,000 Dewatering/waterproofing
- \$ 889,600 2% Urban-like construction site premium
- \$ 1,383,288 3% escalation for extended construction duration
- \$ 3,012,888 (Not reimbursable by MSBA)

Average annual homeowner increase\*

20 year bond ~ \$470 D-B-B / \$500 CM

30 year bond ~ \$410 D-B-B / \$440 CM

#### AES New Site Specific Premiums escalated to 2020:

- \$ 378,000 Abatement of existing building @ \$7/SF
- 432,000 Demolition of existing building @ \$8/SF
- \$ 50,000 Dewatering/waterproofing
- \$ 940,000 2% Urban-like construction site premium
- \$ 1,464,000 3% escalation for extended construction duration
- \$ 3,264,000 (Not reimbursable by MSBA)

Average annual homeowner increase\*

20 year bond ~ \$495 D-B-B / \$535 CM

30 year bond ~ \$430 D-B-B / \$465 CM

#### CES Site Specific Premiums escalated to 2020:

\$ 320,000 Relocate baseball fields

(Not reimbursable by MSBA)

Woodsom Fields est. costs escalated to 2020:

\$ 1,500,000 Soccer fields

530,000 Concession stand

2,030,000 (Not reimbursable by MSBA)

Average annual homeowner increase\*

20 year bond ~ \$450 D-B-B / \$490 CM

30 year bond ~ \$395 D-B-B / \$425 CM

<sup>\*</sup>Estimated Tax Impact: 20 year term is based on a 4.5% interest rate projection. The total principal plus interest will be \$57,658,875.00. The 30 year term is based on a projection of 5.25%. The total principal plus interest will be \$75,276,900.00.

# AHS Site Concept



## Pros

Existing school site

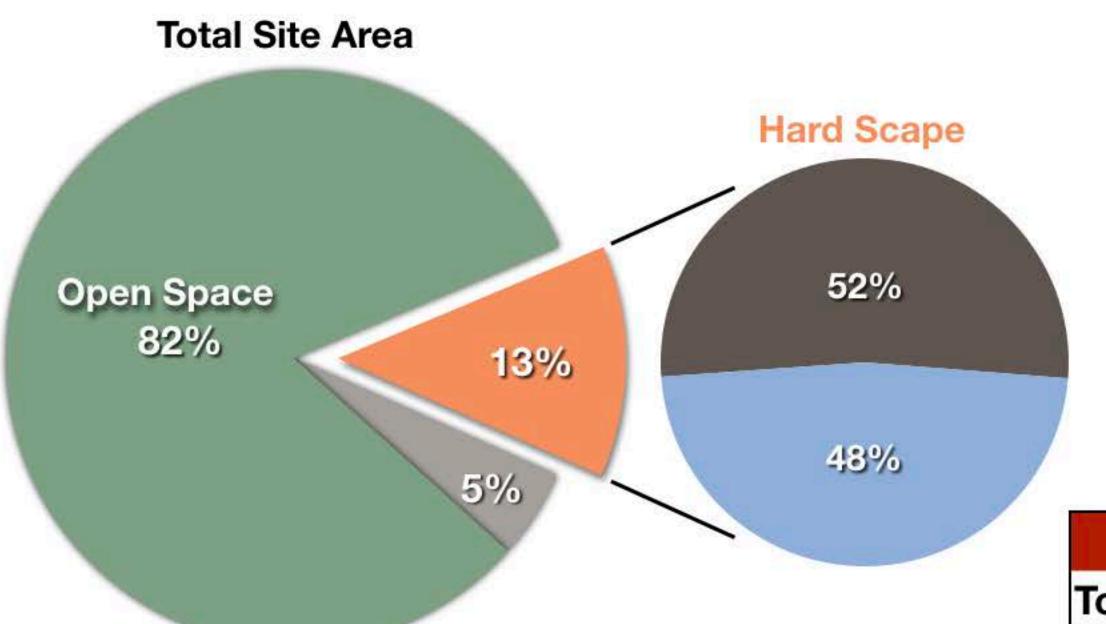
## Cons

- Loss of practice fields
- Parking & AES access drives disturb other fields
- Additional neighborhood traffic @ drop-off & pick-up

# Open Space Conservancy | AES Site (New)

## **Open Space Conservancy Requirements**

OSC requirements for either the AES or Cashman site will be met. At least 80% of the overall site maintains the open space designation.



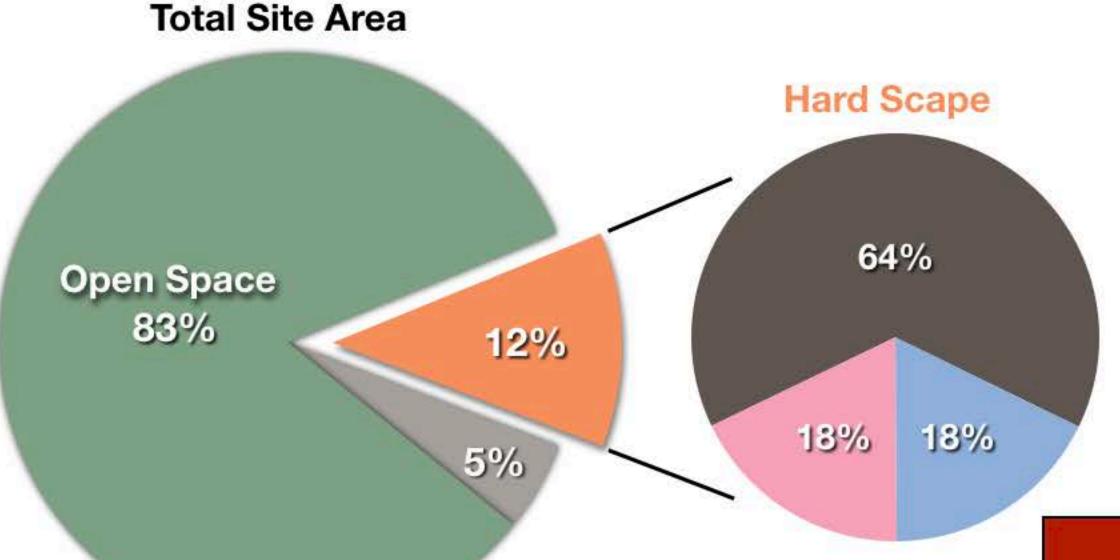
Summary		
Total Site Area	634,800 SF	
Total Hard Scape	86,100 SF	
<b>Building Footprint</b>	41,000 SF	
Parking and Paving	45,100 SF	
Sidewalks & Play Areas	35,000 SF	
Total Open Space	548,700 SF	

Total Site Area			
Site Area	634,800	SF	
New Building Footprint	41,000	SF	
Building Footprint	41,000	SF	
Parking & Paving	45,100	SF	
Driveways	40,900	SF	
Queues and drop-off area	24,000	SF	
Bus Loop	6,000	SF	
Emergency Access Drive	9,400	SF	
AES Service Drive	1,500	SF	
Parking Areas	4,200	SF	
AES Lot	4,200	SF	
Sidewalks & Play Areas	35,000	SF	
New play area	16,500	SF	
Sidewalks	18,500	SF	

# Open Space Conservancy | CES Site

## **Open Space Conservancy Requirements**

OSC requirements for either the AES or Cashman site will be met. At least 80% of the overall site maintains the open space designation.



Summary		
Total Site Area	1,556,281 SF	
Total Hard Scape	237,700 SF	
New Bldg. Footprint	42,000 SF	
Cashman Footprint	42,700 SF	
Parking and Paving	153,000 SF	
Sidewalks & Play Areas	95,000 SF	
Total Open Space	1,318,581 SF	

Total Site Area			
Site Area	1,556,281 SF		
New Building Footprint	42,000 SF		
Building Footprint	42,000 SF		
Cashman Footprint	42,700 SF		
Building Footprint	42,700 SF		
Parking & Paving	153,000 SF		
Driveways	87,400 SF		
Queues and Drop-off Areas	73,000 SF		
AES Service Drive	14,400 SF		
Parking Areas	65,600 SF		
AES Lot	40,100 SF		
Cashman lot	25,500 SF		
Sidewalks & Play Areas	95,000 SF		
Existing Cashman Play Area	17,600 SF		
New Play Area	35,500 SF		
Sidewalks	41,900 SF		
19			



## Category

**Site Constraints** 

#### **AES Site**

#### **Site Constraints**

- Wetlands (Variance required)
  - Variance may allow for additional on-site parking
- Existing Building
- Zoning (Variances required)
- ★ 80% open space requirement achieved

#### **Cashman Site**

#### **Site Constraints**

- Wetlands (Variance required)
- Existing Building
- ★ Zoning (Variances may be required)
- ★ 80% open space requirement achieved

## Category

Site Layout

#### **AES Site**

## **Building Layout**

3-story building in close proximity to street

## **Parking**

★ Limited due to site constraints; some parking in the neighborhood will be required (Possibility of leasing/purchasing private parking lot across the street)

## **Event Parking**

★ 37 on-site parking spaces (incl. parallel parking available after drop-off and pick-up)

## **Future Expansion**

★ Not possible on AES site

## **Existing Building on AES**

Would be demolished

#### **Cashman Site**

## **Building Layout**

3-story building (2 story front facade)

## **Parking**

Improved and expands existing parking

## **Event Parking**

★ Est. 250 on-site parking spaces (incl. parallel parking available after drop-off and pick-up)

## **Future Expansion**

 AES could be swing space to replace existing CES

## **Existing Building on AES**

Available for other municipal use



## Category

## **During Construction**

## Distance Between Schools

#### **AES Site**

#### Timeline

- ★ 40 month construction duration:
  - Extended due to phased construction
  - Extended due to "urban-like" conditions
  - Extended due to demo of exist building

## **Disruptions**

- ★ Building construction 10' from occupied school
- ★ Minimal on-site contractor lay-down area
- Limited on-site parking
- Compromised drop-off/pick-up
- \*Reduced green space/play area

### **Start Times**

Staggered, 30 minutes

#### Student Interaction

Minimal opportunity for vertical integration

#### Cashman Site

#### **Timeline**

- ★ 24 month construction duration:
  - Early site package to accelerate construction

## **Disruptions**

- ★ Building construction 130' from occupied school
- ★ Room for on-site contractor lay-down area within contractor area
- Minimal site circulation disruptions
- \* Reduced green space/play area

#### **Start Times**

Concurrent

#### Student Interaction

Opportunities for vertical integration



## Category

## **Neighborhood Impacts**

#### **AES Site**

#### Traffic

- Minimal neighborhood increase
- Substantial increased cross-town traffic

## Drop-Off/Pick-up

Neutral

## **Building Profile**

- Large mass
- 50' min. height with minimal setback from street

## **Construction Disruptions**

- ★ Significant (cars and trucks parked on roads)
- Proximity to neighbors
- Increased construction traffic

## Bus vs. Walk Population

Currently ≤ 25 students walk to this school

#### Cashman Site

#### Traffic

- Increased neighborhood traffic
- Increased cross-town traffic

## Drop-Off/Pick-up

Improved

## **Building Profile**

No impact

### **Construction Disruptions**

- ★ Minimal neighborhood disruption (cars and trucks parked on-site)
- Separate construction access

### Bus vs. Walk Population

Currently ≤ 25 students walk to this school



## Category

Recreation

#### **AES Site**

#### Fields

Possibility to retain existing baseball field

## **Playgrounds**

 Existing playgrounds will be demolished; build new playground on site

## **Proximity to Recreational Opportunities**

Existing educational trails remain

#### Cashman Site

#### Fields

 Two baseball fields will be eliminated; replicated at Woodsom Farm

## **Playgrounds**

 One existing playground remains, one playground demolished; build new playground on site

## **Proximity to Recreational Opportunities**

★ Existing educational trails remain



## Category

Costs

#### **AES Site**

### Transportation

★ No change in operational costs

## Operational

★ Neutral (same regardless of site)

## Construction—Building

- Increase for de-watering
- Increase for existing building demolition
- Increase for extended timeline
- Increase for urban-like construction

#### Construction—Site

Retaining walls

#### Staff

Neutral (same number of staff regardless of site)

#### Cashman Site

### **Transportation**

★ Savings in operational costs (Reduced number of buses)

## Operational

★ Neutral (same regardless of site)

## Construction—Building

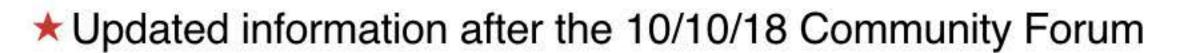
Standard construction methods

#### Construction—Site

- Increase for baseball field relocation
- Increase for extended roadway
- Potential retaining walls

#### Staff

Neutral (same number of staff regardless of site)





## Category

Costs

#### **AES Site**

#### **Bottom line costs**

\*\$59.4 - \$67.8 Million Project cost

#### Bonds

- ★20 year Bond
  - 4.5% interest
  - \$470 \$535 annual household cost
  - Average \$57.7 Million total Bond Cost
- ★30 year Bond
  - 5.25% interest
  - \$410 \$460 annual household cost
  - Average \$75.3 Million total Bond Cost

#### **Cashman Site**

#### **Bottom line costs**

\$59.2 - \$64.2 Million Project cost

#### Bonds

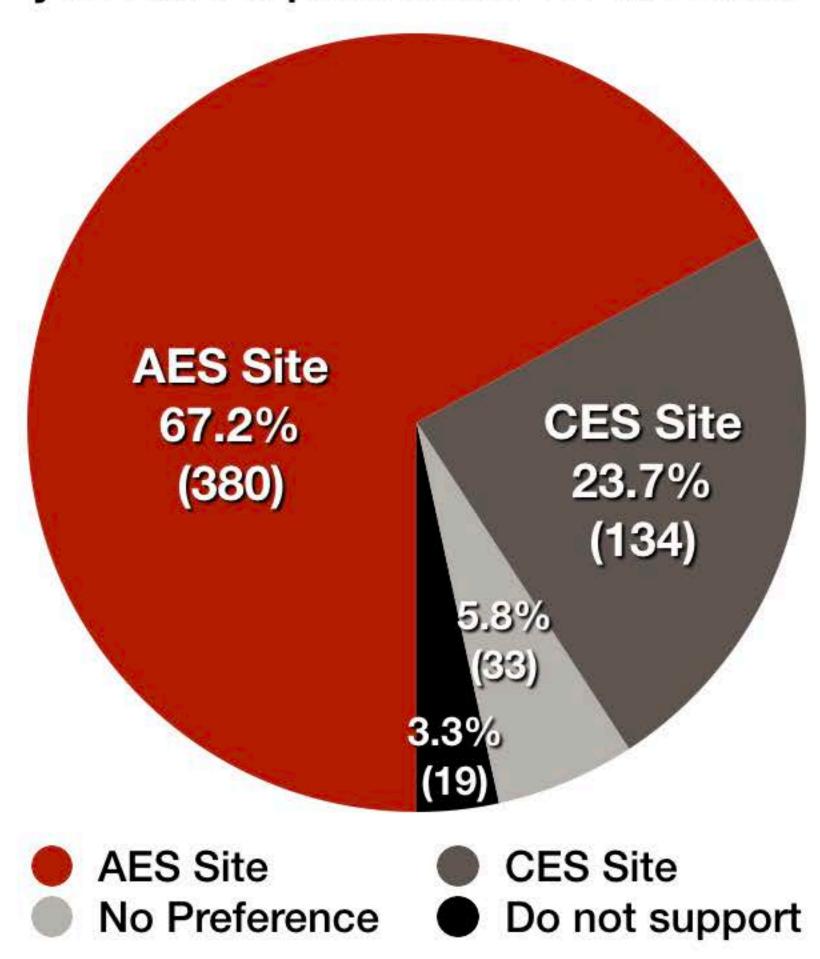
- ★ 20 year Bond
  - 4.5% interest
  - \$450 \$490 annual household cost
  - Average \$57.7 Million total Bond Cost
- ★30 year Bond
  - 5.25% interest
  - \$390 \$430 annual household cost
  - Average \$75.3 Million total Bond Cost



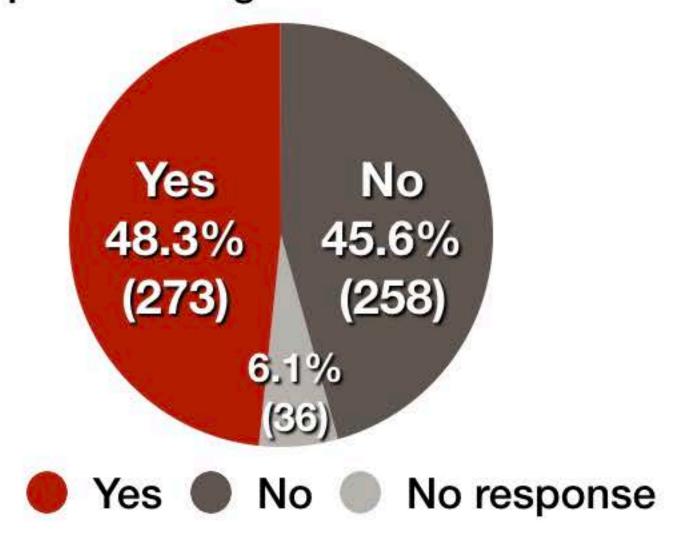
# Fourth Community Survey | Results

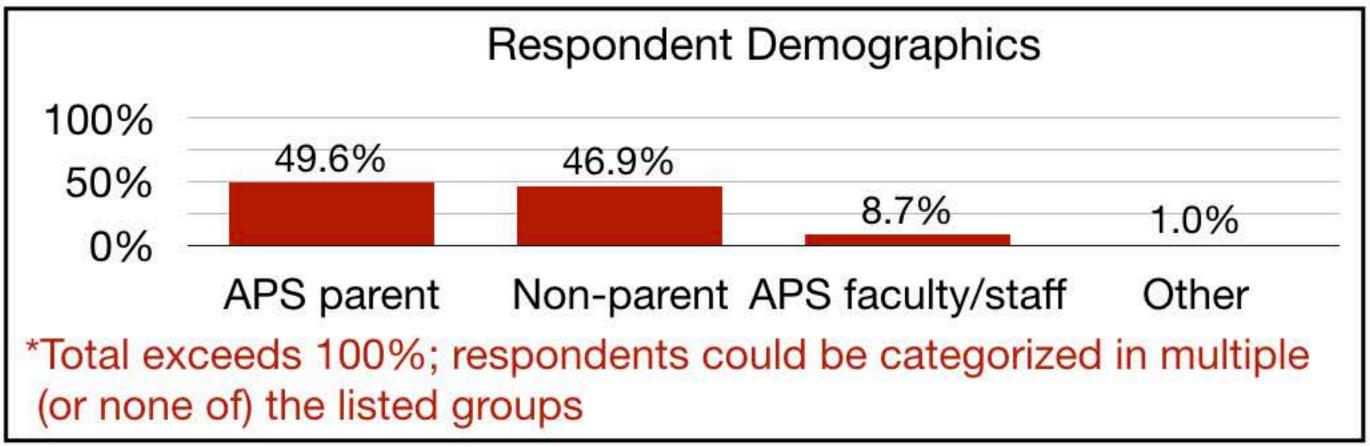
## We sought opinions on the preference of site for the AES project

If you support the AES project, do you have a preference for the site?



If your preference isn't selected as the final site, will you still support building a school on the other site?





# Site Evaluation and Selection | SBC Approval

Seeking your vote to select a site to continue forward with the Preferred Schematic Report

- -AES Add/Reno
- -AES Phased New Construction
- -CES New Construction







# PDP Submission | SBC Approval

Seeking your vote to approve and authorize the OPM to submit the PDP to the MSBA for its consideration.



# Massachusetts School Building Authority

Funding Affordable, Sustainable and Efficient Schools for Local Communities

## MSBA Process & Timeline

- MSBA Enrollment / Program Review
- Preliminary Design Program (PDP)
- Evaluation of Design
- Preferred Schematic Report (Study)
- MSBA Board Meeting (PSR)

October 31, 2018

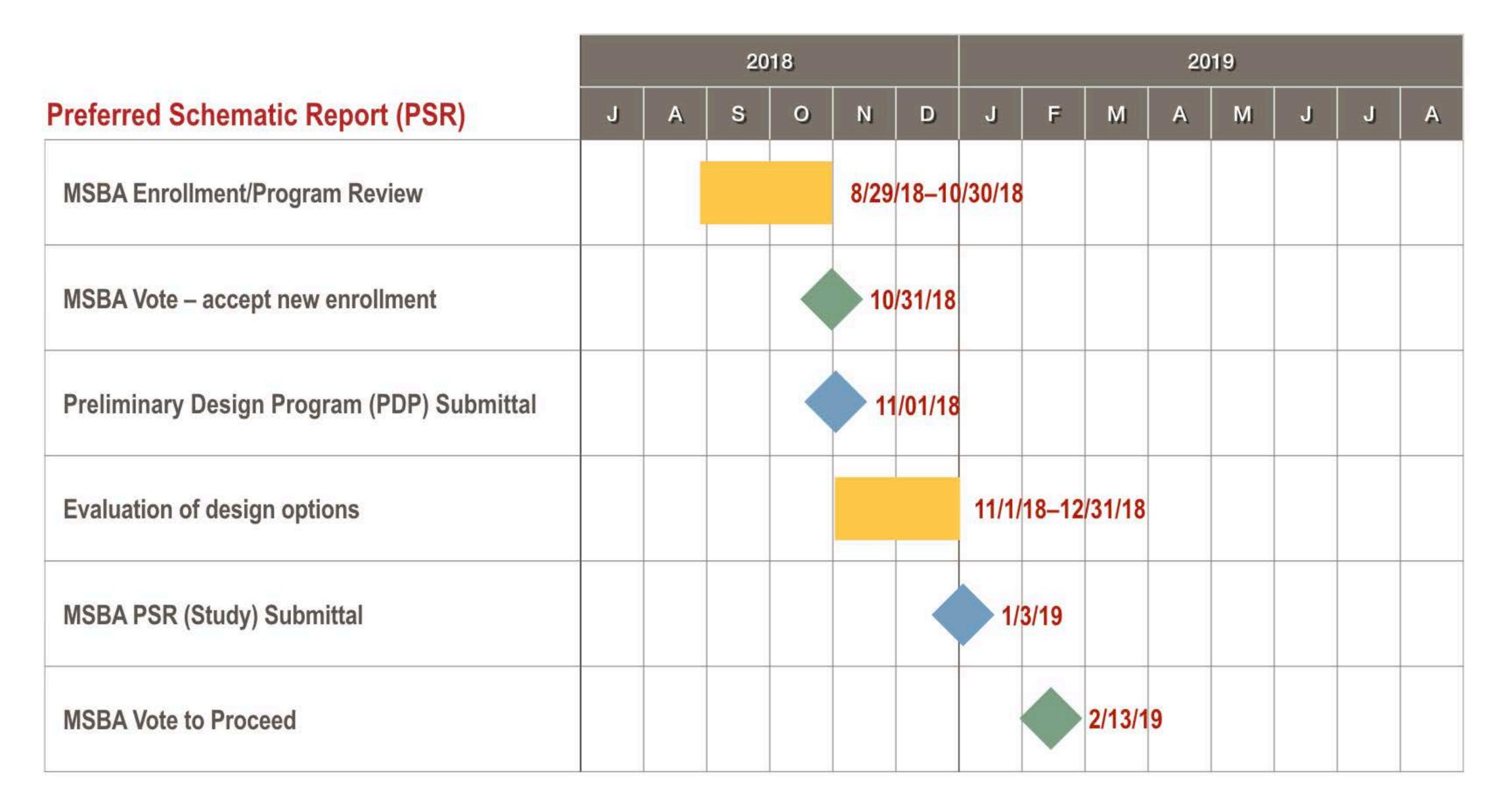
November 01, 2018

Fall 2018

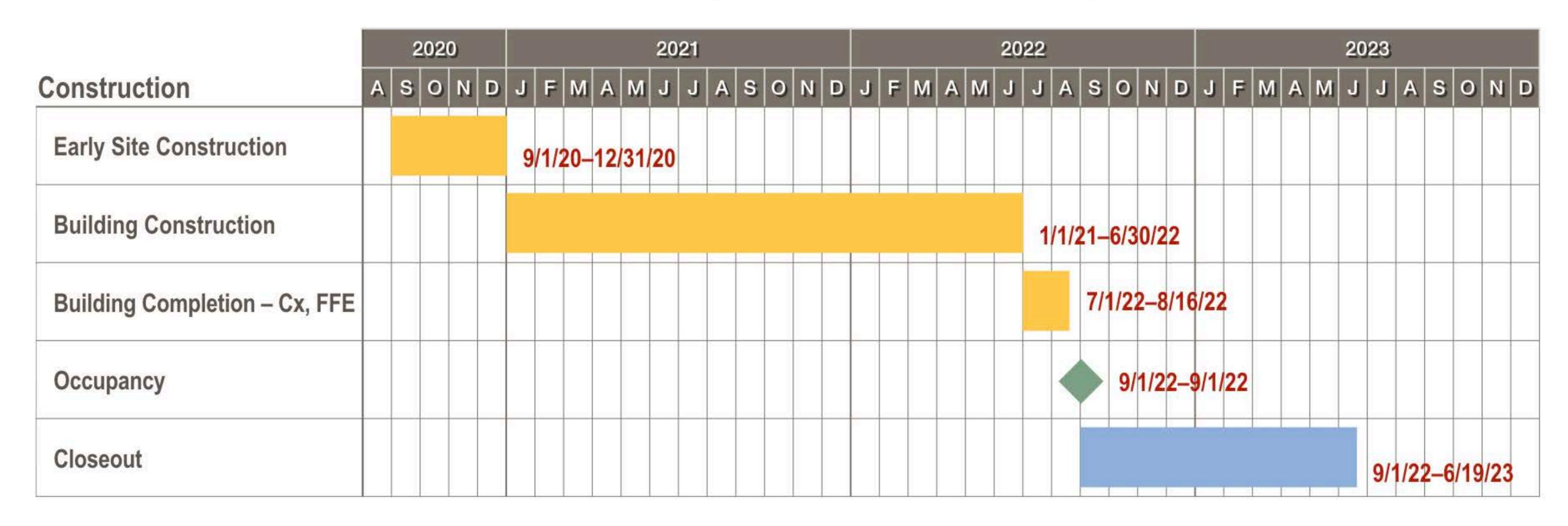
January 3, 2019

February 13, 2019

## MSBA Process & Timeline



# Construction Timeline | CES Concept 3



# Next Steps

- PDP approval
- Site evaluation & selection vote
- PDP Submittal
- PSR Submittal

October 25, 2018

October 25, 2018

November 1, 2018

January 3, 2019